

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:
HALLAHAN

CASE NO: BC1019 US DIV

APPLICATION NO.: 09/655,908
(OF PARENT)

GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HERewith

EXAMINER: UNKNOWN

FOR: CIS-PRENYLTRANSFERASES FROM PLANTS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

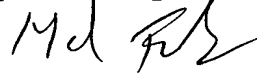
Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicant brings to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO-1449. A copy of the information is also enclosed.

Benefit of the earlier filing date of U.S. Patent Application No. 09/655,908, filed September 6, 2000 is claimed under 35 USC 120 for the above-referenced application. Thus, information cited in the priority application is not supplied with this Information Disclosure Statement. See 37 CFR 1.98(d).

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,



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Dated: 11/3/03

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Complete if Known

Application Number	Unknown
Filing Dat	November 3, 2003
First Named Inventor	COULDREN ET AL.
Group Art Unit	1638 (parent)
Examiner Name	UNKNOWN
Attorney Docket Number	BC1019 US DIV

Sheet	1	of	2
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[illegible][illegible]Date:
Considered:

Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	UNKNOWN
				Filing Date	November 3, 2003
				First Named Inventor	COULDREN ET AL.
				Group Art Unit	1638 (PARENT)
				Examiner Nam	UNKNOWN
Sheet	2	of	2	Attorney Docket Number	BC1019 US DIV

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		NAKAMURA, Y: Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MZN1, XP002160876	
		SASAKI, T.: Oryza sativa cDNA, partial sequence, XP002160877	
		NAKAMURA, Y.: Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MUF9, XP002160878	
		Cornish, K et al., Stabilisation of particle integrity and particle bound cis-prenyl transferases activity in stored, purified rubber particles, XP002161336	
		EMBL Database, Heidelberg, FRG Empln accession number AB023482 15 March 1999, Sasaki, T. et al., "Oryza sativa genomic DNA, chromosome 6, clone P0680A03 XP002167058	
		EMBL Database, Heidelberg, FRG Empln accession No. AC007584 19 May 1999, Lin, X. et al., Arabidopsis thaliana chromosome II section 101 of 255 of the complete sequence. Sequence from clones MJB20, T19E12" XP002167059	
		EMBL Database, Heidelberg, FRG Ernest Pln2 Accession No. AI965398 24 August 1999, Shoemaker, R. et al., "sc71b10.y1 Gm-c1016 Glycine max cDNA clone Genome Systems Clone ID: Gm-c1016-1844 5' similar to SW: XP002167060	
		EMBL Database, Heidelberg, FRG Ernest Pln4 accession no. AW038635 17 September 1999, D'Ascenzo, M. et al., "EST280318 tomato mixed elicitor, BTI Lycopersicon esculentum cDNA clone cLET719, mRNA sequence" XP002167061	
		Kyung-Hwan Han et al., Genes expressed in the latex of Hevea brasiliensis, Tree Physiology 20, 503-510, 2000	
		Tanaka, Y., In Rubber and Related Polyprenols, Methods in Plants Biochemistry; Dey, P. M. and Harborne, J. B., Eds., Academic Press: Sandiego, 1991, Vol. 7, pp 519-536	
		Charlwood et al., In Minor Classes of Terpenoids. Methods in Plants Biochemistry; Academic Press: San Diego, 1991; Vol. 7, pp 537-542	
		McGarvey et al., Terpenoid Metabolism, Plant Cell, 7: 1015-1026 (1995)	
		Chappell, J., Biochemistry and Molecular Biology of the Isoprenoid Biosynthetic Pathway in Plants, Annu. Rev. Plant Physiol. Plant Mol. Biol. 46: 521-547 (1995)	
		Asai et al., Biochem. Biophys. Res. Commun. 202:340-345 (1994)	
		Shimizu et al., Molecular Cloning, Expression, and Purification of Undecaprenyl Diphosphate Synthase, J. Biol. Chem. 273:19476-19481 (1998)	
		Apfel et al., Use of Genomics to Identify Bacterial Undecaprenyl Pyrophosphate Synthetase: Cloning, Expression, and Characterization of the Essential uppS Gene. J. Bacteriol. 181:483-492 (1999)	
		Sato et al., The Yeast RER2 Gene, Identified by Endoplasmic Reticulum Protein Localization Mutations, Encodes cis-Prenyltransferase, a Key Enzyme in Dolichol Synthesis, Mol. Cell. Biol. 19:471-483 (1999)	
		GENBANK, ACC NO. AB011483, Arabidopsis thaliana, August 9, 2000	
		GENBANK, ACC NO. AB013498, Saccharomyces cerevisiae, January 9, 1999	
		GENBANK, ACC NO. AB013497, Saccharomyces cerevisiae, January 9, 1999	
		NGO ET AL., Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox, in th Protein Folding Problem and Tertiary Structure Prediction, 1994, Merz et al., (ed)=, Birkhauser, Boston, MA pp. 433 and 492-495	

Examiner Signature	Date Considered
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.